

UTILITY PATENT



B&D No. P-TN-1698

ABSTRACT

The miter saw includes a base assembly, a rotatable table rotatably connected to the base assembly, the table having a table plane, a fence connected to the base assembly and having a fence plane, a saw assembly including a motor and a blade driven by the motor, the blade having a radius and a blade center, and a pivot arm pivotally attached to the table and pivotally supporting the saw assembly about a first axis substantially parallel to the table plane, allowing a user to plunge the blade below the table plane, wherein the distance between the first axis and the table plane is about 0.472 times the radius. Also, the distance between the first axis and the fence plane is about 1.45 times the radius, and the distance between the first axis and the blade center is about 1.882 times the radius. In addition, the distance between the blade center and the table plane is about 0.57 times the radius when the blade is plunged below the table plane.

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